# ADC Solo

User Manual

AGFA

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Chapter 1

# Introducing the ADC Solo

This chapter draws attention to important safety precautions and introduces the ADC Solo.

- ADC Solo features
- Safety precautions
- Safety compliance
- Operating modes
- The user interface
- Switching on the ADC Solo
- Switching off the ADC Solo

# ADC Solo features

The ADC Solo is a digitizer for image plates retaining latent X-ray images. It has been developed by Agfa.

- The ADC Solo accepts one cassette containing one image plate at a time. The ADC Solo:
  - takes the cassette containing the image plate from the cassette slot;
  - reads the cassette ID data;
  - removes the image plate from the cassette;
  - scans the image plate;
  - converts the information of the latent image to digital data;
  - erases the image plate and re-inserts it into the cassette;
  - gives the cassette ID data the status ‘erased’;
  - returns the cassette;
  - transmits the digital image data to an image processing device (‘destination’).
- The ADC Solo permits assigning the status ‘emergency’ to an image. An emergency image will be given priority by the image processing device.
- The ADC Solo permits re-erasing an image plate before re-using it. In specific cases, this is necessary to prevent ghost images caused by previous exposures or stray radiation from interfering with the image of interest.

# Safety precautions

### *General safety instructions*

- The ADC Solo has been designed for scanning medical X-ray image plates and should only be used for these purposes.
- The ADC Solo must only be operated by qualified staff.
- Make sure that the ADC Solo is constantly monitored in order to avoid inappropriate handling, especially by children.
- Only trained service personnel must make repairs. Only authorized service personnel must make changes to the ADC Solo.
- If there is any visible damage to the machine casing, do not start nor use the ADC Solo.
- If you want to connect the ADC Solo with other devices, components or assemblies and if the technical data do not permit determining whether the combination with these devices, components or assemblies involves hazards, you must consult the respective manufacturers to avoid danger for operating personnel or the environment.
- Do not override or disconnect the integrated safety features.
- Switch off the ADC Solo before performing any maintenance work or repairs. Disconnect the ADC Solo from the mains before making repairs or performing any maintenance activities during which live electrical components may be exposed.
- As is the case for all technical devices, the ADC Solo must be operated, cared for and serviced correctly.
- If you don't operate the ADC Solo correctly or if you don't have it serviced correctly, Agfa-Gevaert is not liable for resulting disturbances, damages or injuries.
- When installing the ADC Solo, care must be taken to ensure that there is either a mains plug or an all-cable disconnecting device in the internal installation fitted near the ADC Solo and that it is easily accessible.
- If you notice conspicuous noise or smoke, disconnect the ADC Solo immediately.
- Check that the voltage setting of the machine matches the power supply voltage before connecting the machine to the mains.

### *Safety instructions for laser products*

The ADC Solo is a Class 1 Laser Product. Under normal operating conditions - when the service doors are closed - there can be no laser radiation outside the ADC Solo.

- Open the lower front door only to replace the erasure lamps or the fuses. Open the right side panel only to solve cassette or image plate jams. When you open the lower front door or the right side panel, the power supply is switched off automatically as a precaution.
- Follow meticulously the operation and troubleshooting instructions in the ADC Solo User and Reference Manual. Other actions can be hazardous.

# Safety compliance

The ADC Solo complies with:

- the general safety regulations EN 60950, EN 60601-1-2, UL 1950 and CSA C22.2 No. 950;
- the radio interference regulations EN 55022:1997, Class B and FCC 47, Part 15, Subchapter B, Class A;
- the laser safety regulations EN 60825-1:1994 and DHHS/FDA 21 CFR, Parts 1040.10 and 1040.11.

# Operating modes

The ADC Solo can be operated in three modes: operator mode, key-operator mode, and service mode.

## *Operator mode*

The operator mode groups all basic functions which are aimed at radiographers:

- Reading an image plate;
- Reading an emergency image plate;
- Re-erasing an image plate.

A normal image plate is read automatically after it is inserted in the ADC Solo cassette slot; the other functions of the operator mode can be accessed via the keypad. All functions of the operator mode are described in *Chapter 2, 'Basic operation ('Operator mode')'*.

## *Key-operator mode*

The key-operator mode groups advanced functions which are aimed at technicians.

The key-operator mode can be accessed via the Key-operator key on the keypad and is menu-driven. The key-operator functions are described in *Chapter 3, 'Advanced operation ('Key-operator mode')'* of the ADC Solo Reference manual.

## *Service mode*

The service mode functions are reserved for trained service personnel. They are pass-word protected.

# The user interface

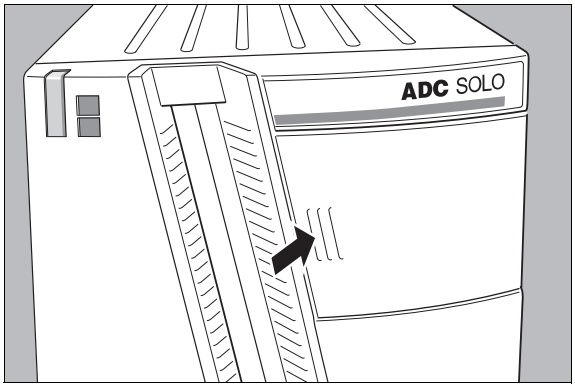
The ADC Solo has three operation modes:

- the **operator mode** for basic operation;
- the **key-operator mode** for advanced operation;
- the **service mode** reserved for trained service personnel.

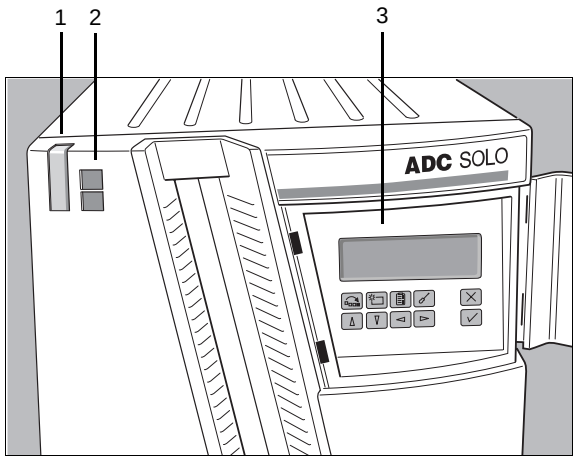
The functions of the operator mode are described in *Chapter 2, 'Basic operation ('Operator mode')'*. An overview of the functions of the key-operator mode is given in *'Survey of advanced functions ('Key-operator mode')' on page 32*. For detailed information on the key-operator mode, refer to the ADC Solo Reference manual.

The ADC Solo interfaces with the user via:

- a keypad and a display;
- a status indicator;
- emergency buttons;
- audio signals.




To access the keypad and the display, press the ribbed area.




| | |
|---|---|
| **1** | Status indicator |
| **2** | Emergency buttons |
| **3** | Keypad and display |

### *The keypad*

The ADC Solo keypad features the following keys:

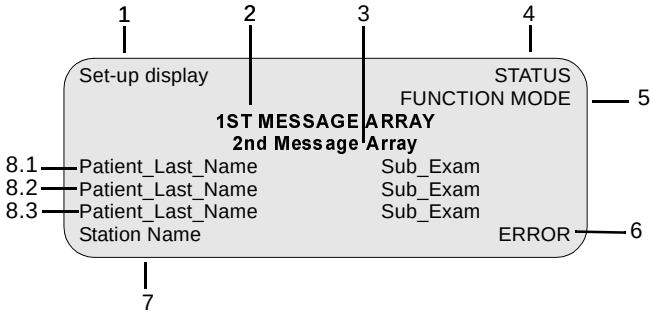
| | | |
|---|---|---|
| | **Emergency** key | To give an image the status ‘emergency’ when it is sent to the image processing device.<br>This key can only be used for cassettes with ID data. |
| | **Erase** key | To erase images without digitizing them.<br>This must be done if:<br>• an image plate has not been used for more than 3 days;<br>• an image plate has been exposed to an exceptionally high X-ray dose. |
| | **Key-operator** key | To access advanced functions (‘key-operator functions’). |
| | **Service** key | To access service-level functions.<br>Reserved for trained service personnel. |
| | **Escape** key | To quit the current function or exit a menu without saving modifications. |
| | **Confirm** key | In key-operator mode:<br>• to select a menu.<br>• to accept an entry in a menu and go back to operator mode. |

| | | |
|---|---|---|
| | **Up** key | • To move the cursor to the previous entry field.<br>• To scroll upwards.<br>• To increment the number in a numeric entry field. |
| | **Down** key | • To move the cursor to the next entry field.<br>• To scroll downwards.<br>• To decrement the number in a numeric entry field. |
| | **Left** key | • To scroll backwards through multiple choices within a field.<br>• To move the entry position in a numerical entry field from right to left.<br>• To toggle between values in a field. |
| | **Right** key | • To scroll forwards through multiple choices within a field.<br>• To move the entry position in a numerical entry field from left to right.<br>• To toggle between values in a field. |

### *The display*

The ADC Solo control panel has a backlit LCD display with 8 lines of 40 characters each. Its lay-out depends on the operating mode.

- In **operator mode**, the display has dedicated areas for specific information:

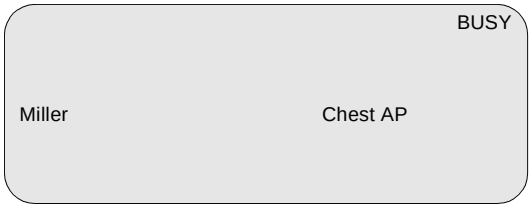



| | |
|---|---|
| **1** | Set-up of image processing device:<br>• [blank]: Default image processing device selected.<br>• Off line: Transmission to all image processing devices disabled.<br>• [process.station] not ready: Image processing device not available.<br>• [process.station] rerouted: Images rerouted to other image processing device. |
| **2** | Type of message |
| **3** | Extra comment or action to take |
| **4** | System status:<br>• READY: The ADC Solo is ready for operation.<br>• BUSY: The ADC Solo is treating an image plate.<br>• ERROR: An error has occurred. Refer to *'Troubleshooting checklist' on page 34*.<br>• LOCKED: id.<br>• WARNING: id. |
| **5** | Operation mode:<br>• [blank]: Normal operation mode.<br>• EMERGENCY: Emergency function for image plates with ID data.<br>• EMERGENCY BUTTON: Emergency function for image plates without ID data.<br>• ERASURE: Re-erasure function. |
| **6** | Error status: service code (SERVICE XXXXX) or error code (CODE XXXXX) |
| **7** | Device name of the ADC Solo |

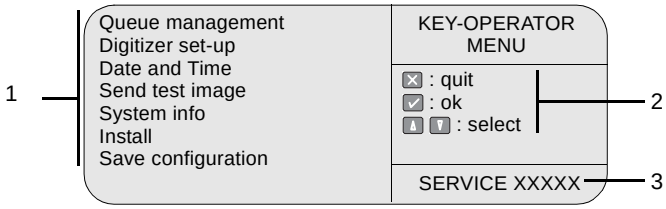
| | |
|---|---|
| | Identifier of image plate being treated: |
| **8.1** | After image ID data is read; |
| **8.2** | During scanning of image plate and transmittal of image data; |
| **8.3** | During transmittal of image data to image processing device. |

The operator main screen is:

When the ADC Solo is treating an image plate, it displays the following screen:




- In **key-operator mode**, operation is menu driven. The menu displays the key-operator functions, the active keys, and the service code.




| | |
|---|---|
| **1** | Key-operator functions |
| **2** | Active keys |
| **3** | Service code |

- In **operator mode** and in **key-operator mode**, both informational and warning messages can be displayed. Informational messages are displayed as black text against a white background; warning messages are displayed in reverse mode.

### *The status indicator*

At the top of the ADC Solo, a light indicates the status of the ADC Solo.

| Color | Constant/ Flashing | Status | Action |
|---|---|---|---|
| Green | Constant | Ready | Proceed |
| | Flashing | Busy (treating image plate) | Wait |
| Red | Constant | Error | • Check display for messages<br>• Refer to *'Troubleshooting checklist' on page 34*. |
| | Flashing | • Locked or warning<br>• Power on/self-test in progress<br>• Key-operator mode<br>• Service mode<br>• ADC Solo not connected to image processing device | • Check display for messages<br>• Refer to *'Troubleshooting checklist' on page 34*. |

### *Emergency buttons*

Two emergency buttons are located at the front of the ADC Solo. They permit processing emergency image plates without ID data. The upper button permits processing of emergency images of the trunk; the lower button permits processing of emergency images of the limbs.

The emergency buttons have the following labels:

| | |
|---|---|
| | For digitizing unidentified emergency images of the trunk. |
| | For digitizing unidentified emergency images of the limbs. |

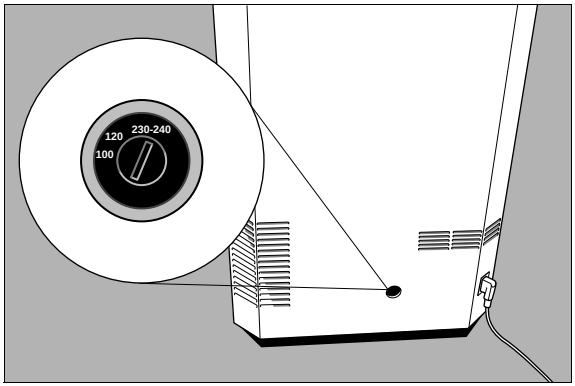
### *Audio signals*

The ADC Solo gives status information via beeps. The length of the beep indicates the response of the system to a key command.

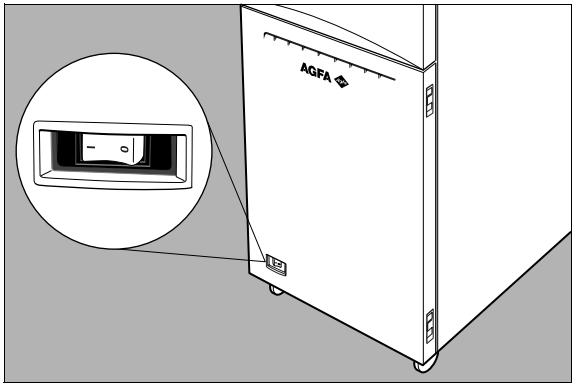
- A **short** beep means that ADC Solo has accepted the key command and is starting the operation.
- A **long** beep means that you have pressed a non-active key or that the ADC Solo has rejected the key command.
- An **interval** beep accompanies an error, locked or warning message. Refer to *'Troubleshooting checklist' on page 34*.

# Switching on the ADC Solo

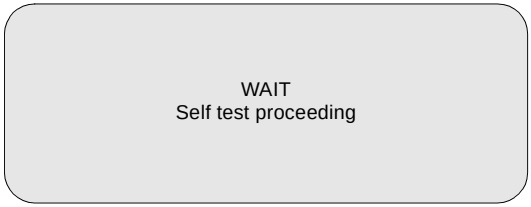
**1** Make sure that the setting of the voltage selector at the back of the machine matches the power supply voltage.




**2** Locate the main switch and place it in position ‘I’.



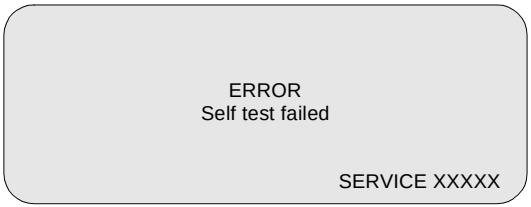
The machine starts a self-test which may take up to 3 minutes. The following screen is displayed:




❖ *During the self-test, you cannot activate any functions.*

**3** If the ADC Solo has completed the self-test successfully, the ADC Solo enters the operator mode and displays the operator main screen:

❖ *If the ADC Solo displays:*




*contact your local service organization.*

# Switching off the ADC Solo

### *Before switching off*

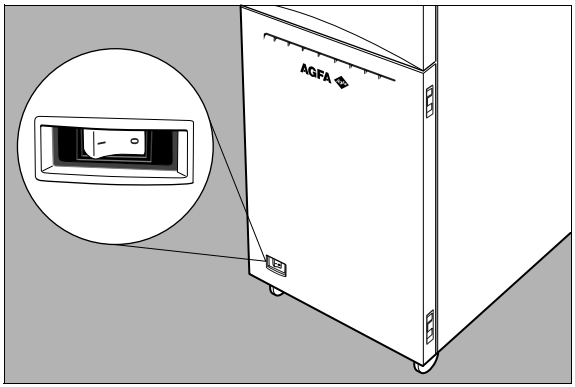
Check that the ADC Solo is not scanning an image plate. If the ADC Solo is scanning an image plate, the status indicator at the top of the machine is green and flashing.

### *Switching off*

It is recommended to switch off the ADC Solo at the end of the day.

***Only switch off the ADC Solo if you do not intend to digitize emergency image plates overnight. Switching on the ADC Solo takes approximately 3 minutes. During this time emergency digitizing is not possible!***

Place the main switch in position ‘0’.



Chapter 2

# Basic operation (‘Operator mode’)

This chapter provides basic information on how to digitize image plates under normal conditions and in emergency situations. It also treats how to re-erase an image plate to prevent ghost images caused by previous exposures or by stray radiation. These functions are available in operator mode.

- ❑ Reading an image plate
- ❑ Reading an emergency image plate
- ❑ Re-erasing an image plate

# Reading an image plate

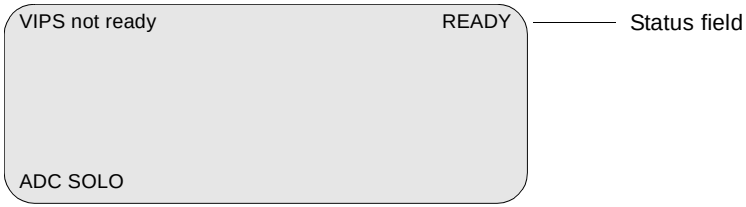
The main function of the ADC Solo is digitizing image plates and transmitting digital image data to an image processing device.

To read an image plate:

**1** Make sure the cassette has been identified properly via the ID station.

**2** Check that the ADC Solo is ready for operation:

- the ADC Solo must display the operator main screen with 'Ready' status, e.g.:

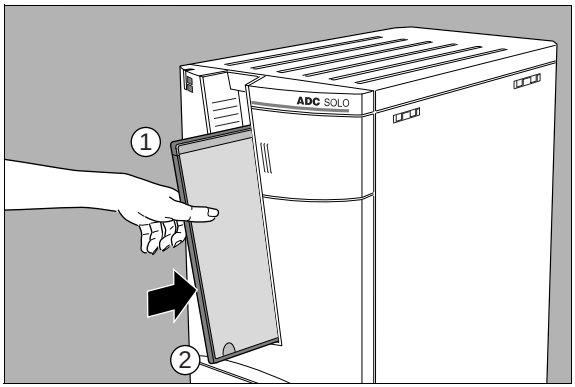



- the status indicator at the top of the ADC Solo must be green and be lit constantly.

❖ *The ADC Solo is operational if the status field equals 'READY', even if status messages of the destination are shown (e.g. 'VIPS not ready').*

**3** Insert the cassette containing the image plate into the cassette slot of the ADC Solo as shown below.

Make sure to insert the cassette with the hinge [1] at the top and the locking mechanism [2] at the bottom.



While treating the image plate, the ADC Solo will display the following screen:

The ADC Solo:

- converts the information of the latent image to digital data;
- erases the image plate and re-inserts it into the cassette;
- gives the cassette ID data the status ‘erased’;
- returns the cassette;
- transmits the digital image data to an image processing device (‘destination’).

When the ADC Solo has treated the cassette, it displays the operator main screen.

***When the ADC Solo returns the cassette, it is ready to be re-used immediately. However, if you leave it for more than 3 days before re-using it, you must re-erase it first. Refer to ‘Re-erasing an image plate’ on page 28***

❖ *If the ADC Solo displays an error message, refer to ‘Troubleshooting checklist’ on page 34.*

# Reading an emergency image plate

You may have an image plate which you wish to give priority over other image plates which are being processed by the image processing device. Such image plates are referred to as 'emergency image plates'. In operator mode, you can treat either:

- emergency image plates with ID data via the Emergency key on the keypad;
- emergency image plates without ID data via the emergency buttons at the front of the ADC Solo.

### *Reading emergency image plates with ID data*

To read an emergency image plate with ID data:

**1** Check that the ADC Solo is ready for operation:

- the ADC Solo must display the operator main screen with 'Ready' status, e.g.:

- the status indicator at the top of the ADC Solo must be green and be lit constantly.

❖ *The ADC Solo is operational if the status field equals 'READY', even if status messages of the destination are shown (e.g. 'VIPS not ready').*

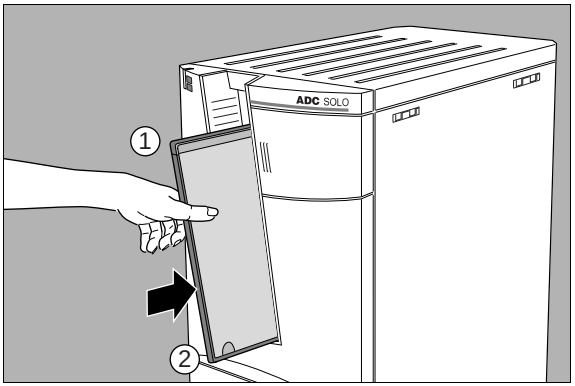
**2** Press the Emergency key on the keypad.

The display will read:

***The emergency status will only be assigned to the first image plate which you insert into the ADC Solo cassette slot after pressing the Emergency key.***

**3** Insert the cassette containing the emergency image plate into the cassette slot as shown below.

Make sure to insert the cassette with the hinge [1] at the top and the locking mechanism [2] at the bottom.




When the ADC Solo has treated the emergency image plate, it displays the operator main screen.

❖ *If you do not enter a cassette within 1 minute after pressing the Emergency key or if you enter a cassette without ID data, the ADC Solo will quit the emergency function and return to the operator main screen.*

### *Reading emergency image plates without ID data*

To read an emergency image plate without ID data:

**1** Check that the ADC Solo is ready for operation:

- the ADC Solo must display the operator main screen with ‘Ready’ status, e.g.:

- the status indicator at the top of the ADC Solo must be green and be lit constantly.

**2** Press one of the emergency buttons at the front of the ADC Solo.

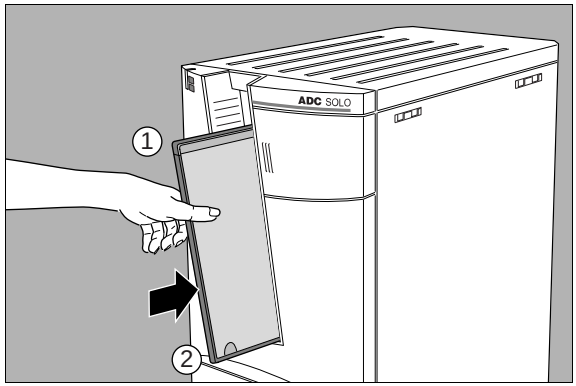
| | |
|---|---|
| | For digitizing unidentified emergency images of the trunk. |
| | For digitizing unidentified emergency images of the limbs. |

The button which you have pressed will be lit and the display will read:

***The emergency status will only be assigned to the first image plate which you insert in the ADC Solo cassette slot after pressing the emergency button.***

**3** Insert the cassette containing the emergency image plate into the cassette slot as shown below.

Make sure to insert the cassette with the hinge [1] at the top and the locking mechanism [2] at the bottom.




The image plate will be digitized using the scan parameters for the emergency button as defined during configuration.

When the ADC Solo has treated the emergency image plate, it displays the operator main screen. The digital image data are transmitted to the image processing device accompanied by default ID data. The image processing device will give the emergency image priority over the other images in the image processing queue.

- ❖ *If you do not enter a cassette within 15 seconds after pressing the emergency button, the ADC Solo will quit the emergency button function and return to the operator main screen.*

- ❖ *To change the scan parameters corresponding to the emergency button, contact your local service organization.*

# Re-erasing an image plate

At the end of a normal or emergency digitizing cycle, the ADC Solo returns an erased image plate. However, in the following cases, you must re-erase the image plate before re-using it in order to prevent ghost images from interfering with the image of interest:

- If the image plate has not been used for more than 3 days.
  In this case, the image plate may have been exposed to stray radiation.
- If an image plate has been exposed to an exceptionally high X-ray dose.
  In this case, deep layers of the image plate may still retain a latent image after standard erasure. Leave the image plate to rest at least one day before re-erasing it.

You can erase image plates which you have given the status ‘to be erased’ via the ID station or image plates which have the status ‘erased’.

### *Re-erasing image plates with status ‘erased’*

To re-erase an image plate which has been erased as part of a normal or emergency digitizing cycle:

**1** Check that the ADC Solo is ready for operation:

- the ADC Solo must display the operator main screen with ‘Ready’ status, e.g.:

- the status indicator at the top of the ADC Solo must be green and be lit constantly.

**2** Press the Erase key on the keypad.

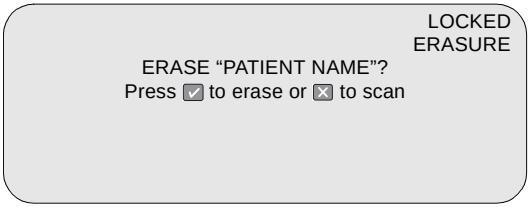
The display will read:

**3** Insert the cassette into the cassette slot.

While erasing, the ADC Solo will still display the above screen. When the ADC Solo has erased the image plate, it displays the operator main screen.

***Warning***

If the above screen is not displayed but the display reads:




you have entered a cassette with ID data not having the status ‘erased’. You now have the choice: either cancel erasing or erase the image plate.

- To cancel erasing and make a regular scan: press the Escape key.

- To erase the image plate: press the Confirm key.

While erasing, the ADC Solo will display:

When the ADC Solo has erased the image plate, it displays the operator main screen.

### *Re-erasing image plates with status ‘to be erased’*

To re-erase an image plate which you have given the status ‘to be erased’ via the ID station:

**1** Check that the ADC Solo is ready for operation:

- the ADC Solo must display the operator main screen with ‘Ready’ status, e.g.:

- the status indicator at the top of the ADC Solo must be green and be lit constantly.

**2** Insert the cassette into the cassette slot.

The ADC Solo will automatically erase the image plate. The display will read:

When the ADC Solo has erased the image plate, it displays the operator main screen.

Chapter 3

# Advanced operation (‘Key-operator mode’)

This chapter gives an overview of the key-operator functions, preventive maintenance actions and troubleshooting.
For detailed information on these topics, refer to the Reference Manual.

- ❑ Survey of advanced functions (‘Key-operator mode’)
- ❑ Preventive maintenance work
- ❑ Troubleshooting checklist

# Survey of advanced functions ('Key-operator mode')

A survey of the functions which are available in key-operator mode is given below. For detailed information, refer to *Chapter 3, 'Advanced operation ('Key-operator mode')'* of the ADC Solo Reference manual.

| Function in key-operator main menu | Section in Reference Manual | Page |
|---|---|---|
| **Queue management** | *Consulting the image transmission queue ('Queue management')*. | *32* |
| **Digitizer set-up** | *Customizing the ADC Solo ('Digitizer set-up')*. | *36* |
| **Date and Time** | *Setting the date and time*. | *41* |
| **Send test image** | *Sending test images*. | *42* |
| **System info** | *Consulting information on the ADC Solo*. | *43* |
| **Install** | *Installing a new software version*.<br>*Installing a new language*.<br>*Installing new customer parameters*. | *47*<br>*53*<br>*59* |
| **Save configuration** | *Saving the configuration data on a diskette (backup)*. | *65* |

# Preventive maintenance work

The only maintenance action which you must perform is checking the image quality. Refer to the Reference manual of the image processing system.

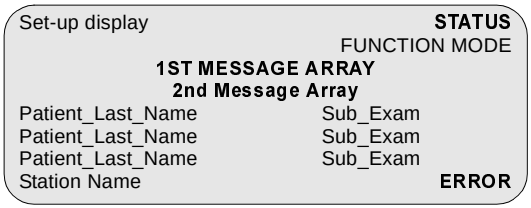
# Troubleshooting checklist

A survey of possible problems is listed below. If corrective actions are straightforward, they are given below. The more elaborate troubleshooting procedures are explained in detail in *Chapter 4, 'Preventive maintenance and troubleshooting'* of the ADC Solo Reference manual.

## *General errors*

| Error | Action |
|---|---|
| The ADC Solo does not start up. | Refer to *'Checking the voltage supply' on page 81* of the Reference manual. |

## *Errors during operation*




| | |
|---|---|
| **Status field:** | **ERROR** |
| Error field: | 'SERVICE XXXXX' |
| Contact your local service organization. | |

| **Status field:** | **ERROR** | |
|---|---|---|
| Error field: | 'CODE XXXXX' | |
| **MESSAGE 1** | **Message 2** | **Action** |
| POWER SUPPLY OUT OF TOLERANCE | 1. Check setting of voltage selector switch on back panel.<br>2. Check fuses of the machine<br>3. Check supply voltage. | Refer to *'Checking the voltage supply' on page 81* of the Reference manual. |

| **Status field:**<br>Error field: | **ERROR**<br>'CODE XXXXX' | |
|---|---|---|
| IP JAM | 1. Remove right side panel<br>2. Put plate back into cassette.<br>3. Close right side panel. | Refer to *'Solving image plate and cassette jams' on page 84* of the Reference manual. |

| **Status field:** | **WARNING** | |
|---|---|---|
| **MESSAGE 1** | **Message 2** | **Action** |
| ERASURE LAMP<br>[X], [Y], [Z] DEFECTIVE | Press ☑ to complete, IP is not erased | • Press Confirm key.<br>• Refer to *'Replacing the erasure lamps' on page 76* of the Reference manual. |
| SCANNER WARNING | Possible bad image, press ☑ | • Press Confirm key.<br>• Contact your local service organization. |
| [PPNAME] NOT READY | Please check and press ☑ | • Check image processing device.<br>• If image processing device is ready, press Confirm key. |
| CORRUPTED MESSAGE IN QUEUE | Please press ☑ and check queue | • Press Confirm key.<br>• Refer to *'Consulting the image transmission queue ('Queue management')' on page 32* of the Reference manual. |
| UNKNOWN DESTINATION [PPNAME] | Please press ☑ and check queue | • Press Confirm key.<br>• Refer to *'Consulting the image transmission queue ('Queue management')' on page 32* of the Reference manual. |

| Status field: | WARNING | |
|---|---|---|
| **MESSAGE 1** | **Message 2** | **Action** |
| ERROR WHILE LOADING LANGUAGE FILE | Default language is used, please press ☑ | • Press Confirm key. English will be used.<br>• Restart ADC Solo.<br>• If the problem persists, contact your local service organization. |
| PARTLY SCANNED IP DETECTED | Possible loss of image, press ☑ | • Press Confirm key.<br>• Check image at destination. |

| Status field: | LOCKED | |
|---|---|---|
| **MESSAGE 1** | **Message 2** | **Action** |
| IP NOT SUFFICIENTLY ERASED | Press ☑ and erase again | • Press Confirm key.<br>• Refer to *'Re-erasing an image plate' on page 28*'. |
| EMPTY CASSETTE | Press ☑ to get cassette | • Press Confirm key.<br>• Remove cassette.<br>• Insert cassette containing image plate. |
| CASSETTE WRITE ERROR | Press ☑ to get cassette | • Press Confirm key.<br>• Remove cassette.<br>• Use another cassette.<br>• If problem persists with other cassettes, contact your local service organization. |
| WRONG CASSETTE | Press ☑ and remove cassette. | • Press Confirm key.<br>• Remove cassette.<br>• Insert correct cassette in the right way. |
| CASSETTE IDENTIFICATION ERROR | Press ☑, remove and identify | • Press Confirm key.<br>• Remove cassette.<br>• Re-identify cassette.<br>• Re-insert cassette. |

| Status field: | LOCKED | |
|---|---|---|
| **MESSAGE 1** | **Message 2** | **Action** |
| CASSETTE READ/ WRITE ERROR | Press ☑, remove and try again | • Press Confirm key.<br>• Remove cassette.<br>• Re-insert cassette.<br>• If problem persists, initialize and identify cassette via ID station.<br>• If problem persists with other cassettes, contact your local service organization. |
| CASSETTE NOT IDENTIFIED | Press ☑, remove and identify | • Press Confirm key.<br>• Remove cassette.<br>• Identify cassette.<br>• Re-insert cassette. |
| 24 X 30 CM CALIBRATION MISSING | Press ☑ to accept or ☒ | • Press Confirm key to treat 24 x 30 cm image plate without calibration or press Cancel key to treat cassettes with other formats.<br>• Contact your local service organization. |
| SERVICE MODE | Please wait | Wait. |
| CASSETTE SLOT BLOCKED | Remove cassette, press ☑ | • Remove cassette.<br>• Remove obstructing objects.<br>• Press Confirm key. |
| IMAGE-QUEUE FULL | Check queue | • Refer to *'Consulting the image transmission queue ('Queue management')' on page 32* of the Reference manual.<br>• Check that the ADC Solo is not off line (Refer to *'The display' on page 14*). |

| Status field: | LOCKED | |
|---|---|---|
| **MESSAGE 1** | **Message 2** | **Action** |
| UNKNOWN DESTINATION [PPNAME] | Press ☑, remove cassette and identify | • Press Confirm key.<br>• Remove cassette.<br>• Identify cassette.<br>• Re-insert cassette.<br>• Check the configuration of the system. |
| RIGHT SIDE PANEL NOT CLOSED | Close right side panel | Close the right side panel. |
| UNKNOWN IP-TYPE | Press ☑, remove cassette, call Service. | • Press Confirm key.<br>• Remove cassette.<br>• Contact your local service organization. |
| EMERGENCY DATA NOT DEFINED | Emergency keys disabled, press ☑ | • Press Confirm key<br>• Contact your local service organization. |

### *Errors when handling diskettes*

| Error | Action |
|---|---|
| Wrong or missing volume label | • Remove floppy.<br>• Insert floppy with correct label.<br>• Press Confirm key. |
| Floppy not formatted | • Remove floppy.<br>• Insert formatted floppy.<br>• Press Confirm key. |
| Floppy full | • Remove floppy.<br>• Insert empty formatted floppy.<br>• Press Confirm key. |
| Floppy write protected | • Remove floppy.<br>• Remove write protection from floppy.<br>• Re-insert floppy.<br>• Press Confirm key. |

Appendix A

# Equipment information sheet

# Specifications

| | |
|---|---|
| **Product description** | |
| Type of product | Digitizer |
| Commercial name | ADC Solo |
| Model number | 5155 |
| Original seller/manufacturer | Agfa-Gevaert NV-Mortsel |
| **Labelling** | |
| CE | 93/42 EEC ‘Medical Devices’ (Europe) |
| UL | UL 1950, CSA 22.2 No. 950<br>(North America) |
| CUL | (North America) |
| **Dimensions** | |
| Length, at cassette slot | 730 mm |
| Length, at foot | 700 mm |
| Width | 450 mm |
| Height | 1408 mm |
| **Weight** | |
| Unpacked | 215 kg |
| **Electrical connection** | |
| Operating voltage | Europe: 230 V ± 10%<br>USA: 120 V + 6%, -10%<br>Japan: 100 V ± 10%<br>208 V + 6%, -10%, |
| Mains fuse protection | Europe: 16 A, slow blow<br>USA & Japan: 15 A, slow blow |
| Mains frequency | 50/60 Hz |

| | |
|---|---|
| **Power consumption** | |
| Standby | |
| • 230 V/ 50 Hz configuration | 230 W |
| • 208 V/ 60 Hz configuration | 227 W |
| • USA: 120 V/ 60 Hz configuration | 216 W |
| • Japan: 100 V/ 60 Hz | 220 W |
| During operation | |
| • 230 V/ 50 Hz configuration | max. 1610 W |
| • 208 V/ 60 Hz configuration | max. 1470 W |
| • 120 V/ 60 Hz configuration (USA) | max. 1440 W |
| • 100 V/ 60 Hz (Japan) | max. 1500 W |
| **Environmental requirements** | |
| Room temperature | 15 °C - 30 °C |
| Maximum temperature change | 0.5 °C/min. |
| Relative humidity | 10 % - 75 % |
| Magnetic field (Dynamic) | compliant with EN 61000-4-8, Level 5 |
| Sunlight exposure | not be operated in full sunlight |
| **Warming-up time** | |
| • Cold start | fully operational after max. 30 min. |
| • Warm start | fully operational after self-test<br>if not switched off for more than 3 min., after 30 min. operation |
| **Cassette format** | **corresponding IP format** |
| 24 x 18 cm | 238 x 178 mm |
| 30 x 24 cm | 298 x 238 mm |
| 35 x 35 cm | 354 x 354 mm |
| 35 x 43 cm | 354 x 430 mm |
| 30 x 15 cm | 298 x 148 mm |
| 12 x 10” | 303 x 252 mm |

| | |
|---|---|
| 10 x 8” | 252 x 201 mm |
| **Physical emissions** | |
| Noise emission (sound power level according to ISO 7779) | |
| • During scanning | max. 65 dB(A) |
| • Standby | max. 45 dB(A) |
| Radio frequency emission | according to EN 55022:1997, Class B and FCC, Part 15, Subchapter B, Class A |
| Heat emission | |
| • During scanning | max. 1610 W |
| • Standby | 230 W |
| **Cassette return time** | 60 - 72 secs |
| **End of Life** | |
| Estimated product life<br>(if regularly serviced and maintained according to Agfa instructions) | 7 yrs. |

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